

Title (en)
FEMALE CONNECTOR ASSEMBLY

Title (de)
BUCHSENBAUGRUPPE

Title (fr)
ENSEMBLE CONNECTEUR FEMELLE

Publication
EP 2413434 A2 20120201 (EN)

Application
EP 10756295 A 20100309

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Abstract (en)
An assembly of a female connector, including: a housing including a casing having an opening formed in front of the casing so that a male connector is inserted in the opening, an internal body that includes one or more terminal-accommodating holes formed in the internal body and protrudes from a rear side of the casing towards a front of the housing, and a plurality of first combining portions that extend from the internal body to the front of the housing, each of the plurality of first combining portions including an extension groove formed in one side of each first combining portion so as to communicate with the one or more terminal-accommodating holes, wherein a first securing protrusion is disposed in the extension groove, and a first groove that is formed in one side of a terminal inserted through the one or more terminal-accommodating holes is secured in the first securing protrusion; and a front holder including a front portion having the number of a plurality of insertion holes corresponding to the number of the one or more terminal-accommodating holes formed in the front portion and a plurality of second combining portions corresponding to the number of the first combining portions that extend from the front portion towards a rear of the front holder, include a second securing protrusion that is formed to correspond to the first securing protrusions in an opposite direction to a direction in which the first securing protrusion is formed, in such a way that a second groove formed in the other side of the terminal is secured on an end part of each second combining portion, wherein, when the front holder is inserted in the opening and then is slid on a left or right side of each first combining portion so that the terminal-accommodating holes and the plurality of insertion holes are aligned with one another, the first securing protrusion and the second securing protrusion secure the first groove and the second groove, respectively, and the front holder is combined with the first combining portion. The terminal can be primarily secured by the first securing protrusion disposed on the housing and then can be secondarily secured by the second securing protrusion disposed on the front holder by sliding the front holder in left or right direction of a casing so that the front holder can serve as a terminal position assurance (TPA) and the terminal can be conveniently and stably secured.

IPC 8 full level
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